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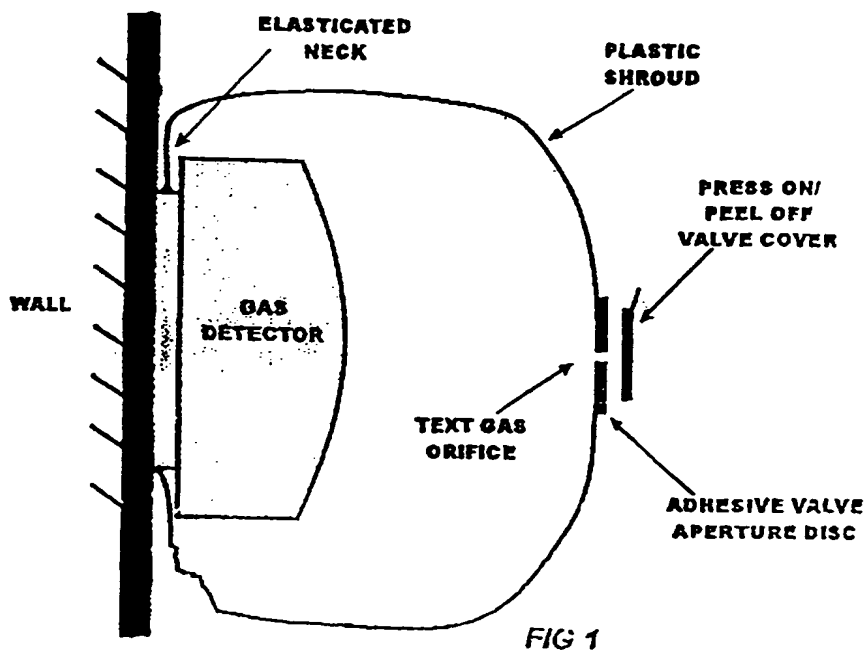
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(56) Documents Cited  
WO 90/01160 A1 US 4742708 A

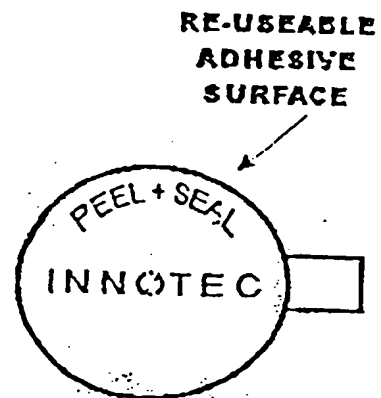
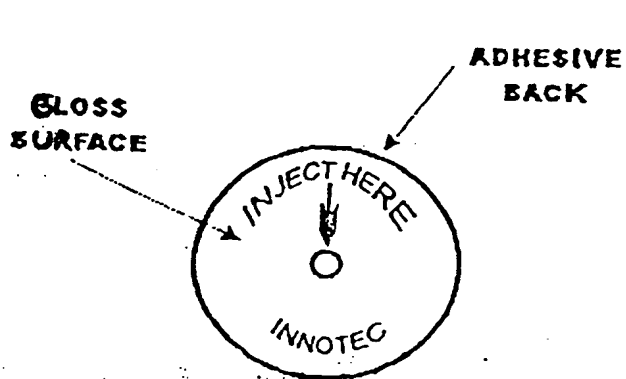
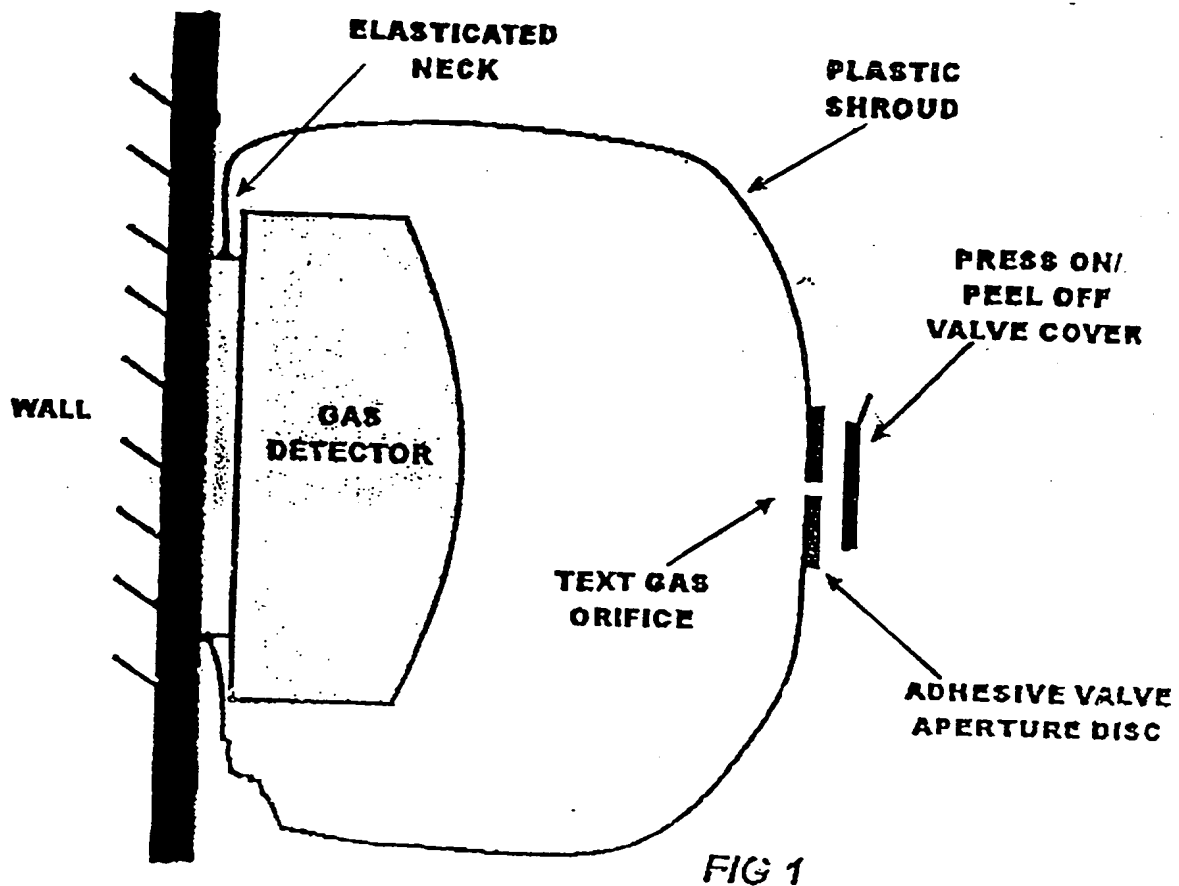
(58) Field of Search  
UK CL (Edition R ) G1N NAGD2 NAGD9 NBKT NCGB  
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Online: World Patents Index, EPODOC, Patent  
Abstracts of Japan

(54) Abstract Title  
Sample chamber for testing a gas detector

(57) A flexible plastic shroud is used to contain a reference gas sample adjacent to a gas detector. The shroud comprises an elasticated neck for adaptation to detectors of different sizes. A valve may be provided, consisting of two discs, where one disc acts as a reusable cover that is peeled off to allow the injection of gas e.g. by an aerosol.



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**GAS DETECTOR TEST SHROUD**  
**AND VALVE ASSEMBLY**

This invention relates to a Test Shroud and valve assembly for testing Gas Detectors.

The sensors used in Gas Detectors have a life limit of typically five years. There is a need to test such devices annually to ensure continual satisfactory operation.

To avoid false alarms detectors are manufactured incorporating a micro processors which cycle test the air over a time predetermined by the manufacturer to enable gas concentrations to be detected once dangerous levels are reached.

Because of this cycle period it is necessary to maintain the presences of test gases around a gas detector over the test period.

Gas Detectors are manufactured with either battery or mains operation which tend to be a permanent fixture.

This low cost device enables gas to be injected into the shroud from an aerosol can containing the test gas (patent application No. 9817255.4 - 10th August 1998). The gas is sealed into the shroud by way of a re-usable two part assembly which acts as a gas tight valve.

**CLAIMS**

1. A flexible plastic shroud with adjustable elasticated neck opening to provide a universal fit for Gas Detectors. To enable Test Gas to be contained around a gas detector.
2. A self adhesive valve aperture Disc (Fig 2) enabling the injection of test gases into the shroud as claimed in Claim 1.
3. A re-usable (stick on - peel off) valve cover Fig 3 enabling the gas tight seal of the valve aperture disc as claimed in Claim 2.



Application No: GB 9828126.4  
Claims searched: 1-3

Examiner: Diana Pisani  
Date of search: 20 April 2000

**Patents Act 1977**  
**Search Report under Section 17**

**Databases searched:**

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:  
UK CI (Ed.R): G1N NAGD2, NAGD9, NBKT, NCGB, NCGP  
Int CI (Ed.7): G01N 27/12, 33/00  
Other: Online: World Patents Index, EPODOC, Patent Abstracts of Japan

**Documents considered to be relevant:**

Category	Identity of document and relevant passage	Relevant to claims
A	WO90/01160 A1 RADIOMETER A/S, see whole document.	
A	US4742708 BECKMAN INDUSTRIAL CORPORATION, see removable chamber 30 in figure 1.	

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.